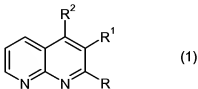


AMENDMENTS TO THE CLAIMS

1. (Currently amended) The compound of the general formula (1):



wherein

R is halo;

R¹ is aryl or heteroaryl; morpholino, piperidino or pyrrolidino;

R² is NR³R⁴,

wherein R³ and R⁴ are independently H, C₁₋₈ alkyl, C₂₋₈ alkenyl, C₂₋₈ alkynyl, aryl, aryl(C₁₋₈)alkyl, C₂₋₈ cycloalkyl, C₃₋₈ cycloalkyl, (C₁₋₆)alkyl, heteroaryl, heteroaryl(C₁₋₈)alkyl, NR⁵R⁶, provided that not both R³ and R⁴ are H or NR⁵R⁶;

or wherein R³ and R⁴ together form a C₃₋₇ alkylene or C₃₋₇ alkenylene chain optionally substituted with one or more C₁₋₄ alkyl or C₁₋₄ alkoxy groups;

or wherein R³ and R⁴ together with the nitrogen atom to which they are attached form a morpholine, thiomorpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide ring or a piperazine or piperazine N-(C₁₋₄)alkyl (especially N-methyl) ring;

R⁵ and R⁶ are independently H, C₁₋₈ alkyl, C₂₋₈ alkenyl, C₂₋₈ alkynyl, aryl, aryl(C₁₋₈)alkyl, C₂₋₈ cycloalkyl, C₃₋₈ cycloalkyl, (C₁₋₆)alkyl, heteroaryl or heteroaryl(C₁₋₈)alkyl;

and wherein

said alkyl, alkenyl, or alkynyl or cycloalkyl groups or moieties are optionally substituted with halogen, cyano, C₁₋₆alkoxy, C₁₋₆alkylcarbonyl, C₁₋₆alkoxycarbonyl, C₁₋₆haloalkoxy, C₁₋₆alkylthio, tri(C₁₋₄)alkylsilyl, C₁₋₆alkylamino or C₁₋₆dialkylamino;

said morpholine, thiomorpholine, piperidine, and piperazine and pyrrolidine rings are optionally substituted with C₁₋₄ alkyl (especially methyl); and

said aryl or heteroaryl groups or moieties are optionally substituted with one or more substituents selected from the group consisting halo, hydroxy, mercapto, C₁₋₆alkyl, C₂₋₆alkenyl, C₂₋₆alkynyl, C₁₋₆alkoxy, C₂₋₆alkenyloxy, C₂₋₆alkynyloxy, halo(C₁₋₆)alkyl, halo(C₁₋₆)alkoxy, C₁₋₆alkylthio, halo(C₁₋₆)alkylthio, hydroxy(C₁₋₆)alkyl, C₁₋₄alkoxy(C₁₋₆)alkyl, C₃₋₆cycloalkyl, C₃₋₆cycloalkyl(C₁₋₄)alkyl, phenoxy, benzyloxy, benzoyloxy, cyano, isocyano, thiocyanato, isothiocyanato, nitro, -NR^{'''}R^{'''}, -NHCOR^{'''}, -NHCONR^{'''}R^{'''}, -CONR^{'''}R^{'''}, -SO₂R^{'''}, -OSO₂R^{'''},

-COR^{'''}, -CR^{'''}=NR^{'''} and -N=CR^{'''}R^{'''}, in which R^{'''} and R^{'''} are independently hydrogen, C₁₋₄ alkyl, halo(C₁₋₄)alkyl, C₁₋₄ alkoxy, halo(C₁₋₄)alkoxy, C₁₋₄ alkylthio, C₃₋₆ cycloalkyl, C₃₋₆ cycloalkyl(C₁₋₄) alkyl, phenyl or benzyl, the phenyl and benzyl groups being optionally substituted with halogen, C₁₋₄ alkyl or C₁₋₄ alkoxy.

2. (Currently amended) A compound according claim 1 wherein:

(A) R³ is C₁₋₈ alkyl, halo(C₁₋₈) alkyl, hydroxy(C₁₋₈)alkyl, C₁₋₄ alkoxy(C₁₋₈)alkyl, C₁₋₄ alkoxyhalo(C₁₋₈)alkyl, tri(C₁₋₄)alkylsilyl(C₁₋₆)alkyl, C₁₋₄ alkylcarbonyl(C₁₋₈)alkyl, C₁₋₄ alkylcarbonyl/halo(C₁₋₈)alkyl, phenyl(C₁₋₄) alkyl, C₂₋₈ alkenyl, halo(C₂₋₈)alkenyl, C₂₋₈ alkynyl, C₃₋₆ cycloalkyl optionally substituted with chloro, fluoro or methyl, C₃₋₆ cycloalkyl(C₁₋₄) alkyl, phenylamino, piperidino or morpholino, the phenyl ring of phenylalkyl or phenylamino being optionally substituted with one, two or three substituents selected from halo, C₁₋₄ alkyl, halo(C₁₋₄)alkyl, C₁₋₄ alkoxy and halo(C₁₋₄)alkoxy; and R⁴ is H, C₁₋₄ alkyl, halo(C₁₋₄)alkyl or amino; or

(B) R³ and R⁴ together form a C₃₋₇ alkylene or C₃₋₇ alkenylene chain optionally substituted with methyl; or

(C) R³ and R⁴, together with the nitrogen atom to which they are attached, form a morpholine, thiomorpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide ring or a piperazine or piperazine N-(C₁₋₄)alkyl (especially N-methyl) ring, in which the morpholine or piperazine rings are optionally substituted with methyl.

3. (Currently amended) A compound according to claim 1 wherein R¹ is phenyl optionally substituted with from one to five halogen atoms or with from one to three substituents selected from halo, C₁₋₄ alkyl, halo(C₁₋₄)alkyl, C₁₋₄ alkoxy or halo(C₁₋₄)alkoxy, pyridyl optionally substituted with from one to four halogen atoms or with from one to three substituents selected from halo, C₁₋₄ alkyl, halo(C₁₋₄)alkyl, C₁₋₄ alkoxy or halo(C₁₋₄)alkoxy, 2- or 3-thienyl optionally substituted with from one to three halogen atoms or with from one to three substituents selected from halo, C₁₋₄ alkyl, halo(C₁₋₄)alkyl, C₁₋₄ alkoxy or halo(C₁₋₄)alkoxy, or piperidino or morpholino both optionally substituted with one or two methyl groups.

4. (Original) A compound according to claim 3 wherein R¹ is 2,6-difluorophenyl, 2-fluoro-6-chlorophenyl, 2,5,6-trifluorophenyl, 2,4,6-trifluorophenyl, 2,6-difluoro-4-methoxyphenyl or pentafluorophenyl.

5. Cancelled.

6. (Currently amended) A compound according to claim 1 wherein:

(A) R^3 is ~~C₁₋₄ alkyl, C₁₋₆ alkyl, halo(C₁₋₄)alkyl, C₂₋₄ alkenyl, C₃₋₆ cycloalkyl, C₃₋₆ cycloalkyl(C₁₋₄)alkyl or phenylamino in which the phenyl ring is optionally substituted with one, two or three substituents selected from halo, C₁₋₄ alkyl, halo(C₁₋₄)alkyl, C₁₋₄ alkoxy and halo(C₁₋₄)alkoxy; and R^4 is H, or C₁₋₄ alkyl, or amino;~~

(B) or wherein R^3 and R^4 together form a C₄₋₆ ~~C₂₋₇~~ alkylene chain optionally substituted with C₁₋₄ alkyl, ~~or C₁₋₆ alkoxy;~~

(C) or wherein R^3 and R^4 , together with the nitrogen atom to which they are attached, form a morpholine, thiomorpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide ring ~~or a~~ piperazine or piperazine N-(C₁₋₄)alkyl (especially N-methyl) ring; and

wherein said alkyl, ~~or, alkenyl, alkynyl or cycloalkyl~~ groups or moieties are optionally substituted with halogen, cyano, C₁₋₆ alkoxy, C₁₋₆ alkylcarbonyl, C₁₋₆ alkoxy carbonyl, C₁₋₆ haloalkoxy, C₁₋₆ alkylthio, tri(C₁₋₄)alkylsilyl, C₁₋₆ alkylamino or C₁₋₆ dialkylamino;

and wherein said ~~said~~ morpholine ~~and thiomorpholine, piperidine, piperazine and pyrrolidine~~ rings are optionally substituted with C₁₋₄ alkyl;

and wherein said ~~aryl or heteroaryl~~ groups or moieties are optionally substituted with one or more substituents selected from the group consisting of halo, hydroxy, mercapto, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₁₋₆ alkoxy, C₂₋₆ alkenyloxy, C₂₋₆ alkynyloxy, halo(C₁₋₆)alkyl, halo(C₁₋₆)alkoxy, C₁₋₆ alkylthio, halo(C₁₋₆)alkylthio, hydroxy(C₁₋₆)alkyl, C₁₋₄ alkoxy(C₁₋₆)alkyl, C₃₋₆ cycloalkyl, C₃₋₆ cycloalkyl(C₁₋₄)alkyl, phenoxy, benzyloxy, benzoyloxy, cyano, isocyano, thiocyanato, isothiocyanato, nitro, -NR^{'''}, -NHCOR^{'''}, -NHCONR^{'''}, -CONR^{'''}, -SO₂R^{'''}, -OSO₂R^{'''}, -COR^{'''}, -CR^{'''}=NR^{'''} and -N=CR^{'''}, in which R^{'''} and R^{'''} are independently hydrogen, C₁₋₄alkyl, halo(C₁₋₄)alkyl, C₁₋₄ alkoxy, halo(C₁₋₄)alkoxy, C₁₋₄ alkylthio, C₃₋₆ cycloalkyl, C₃₋₆ cycloalkyl(C₁₋₄)alkyl, phenyl or benzyl, the phenyl and benzyl groups being optionally substituted with halogen, C₁₋₄ alkyl or C₁₋₄ alkoxy.

7. (Previously presented) A compound according to claim 1 wherein R¹ is optionally substituted phenyl.

8. (Currently amended) A compound according to claim 1 wherein:

R¹ is phenyl optionally substituted with from one to five halogen atoms or with from one to three substituents selected from the group consisting of halo, C₁₋₄ alkyl, halo(C₁₋₄)alkyl, C₁₋₄ alkoxy ~~and or halo(C₁₋₄)alkoxy, and pyridyl optionally substituted with from one to four halogen atoms or with from one to three substituents selected from halo, C₁₋₄ alkyl, halo(C₁₋₄)alkyl, C₁₋₄ alkoxy or~~

halo(C₁₋₄)alkoxy, 2- or 3-thienyl optionally substituted with from one to three halogen atoms or with from one to three substituents selected from halo, C₁₋₄alkyl, halo(C₁₋₄)alkyl, C₁₋₄alkoxy or halo(C₁₋₄)alkoxy, or piperidino or morpholino both optionally substituted with one or two methyl groups; and

wherein R³ is C₁₋₄alkyl or halo(C₁₋₄)alkyl; C₄₋₆alkyl, halo(C₄₋₆)alkyl, hydroxy(C₄₋₆)alkyl, C₁₋₄alkoxy(C₄₋₆)alkyl, C₁₋₄alkoxyhalo(C₄₋₆)alkyl, tri(C₁₋₄)alkylsilyl(C₁₋₆)alkyl, C₁₋₄alkylcarbonyl(C₁₋₄)alkyl, C₄₋₆alkylcarbonylhalo(C₁₋₄)alkyl, phenyl(C₁₋₄)alkyl, C₂₋₆alkenyl, halo(C₂₋₆)alkenyl, C₂₋₆alkynyl, C₂₋₆cycloalkyl optionally substituted with chloro, fluoro or methyl, C₃₋₆cycloalkyl(C₄₋₆)alkyl, phenylamino, piperidino or morpholino, the phenyl ring of phenylalkyl or phenylamino being optionally substituted with one, two or three substituents selected from halo, C₁₋₄alkyl, halo(C₁₋₄)alkyl, C₁₋₄alkoxy and halo(C₁₋₄)alkoxy; and R⁴ is H, C₁₋₄alkyl, halo(C₁₋₄)alkyl or amino;

or wherein R³ and R⁴ together form a C₄₋₆alkylene chain, C₃₋₇alkylene or C₃₋₇alkenylene chain optionally substituted with methyl;

or wherein R³ and R⁴ together with the nitrogen atom to which they are attached, R³ and R⁴ form a morpholine, thiomorpholine, thiomorpholine S-oxide or thiomorpholine S-dioxide ring or a piperazine or piperazine N-(C₁₋₄)alkyl (especially N-methyl) ring, in which the morpholine or piperazine rings are optionally substituted with methyl.

9. (Currently amended) A compound according to claim 1 wherein:

R¹ is phenyl optionally substituted with from one to five halogen atoms, or with from one to three substituents selected from halo, C₁₋₄alkyl, halo(C₁₋₄)alkyl, C₁₋₄alkoxy or halo(C₁₋₄)alkoxy; and

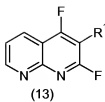
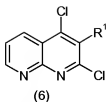
wherein R³ is C₁₋₄alkyl, halo(C₁₋₄)alkyl, C₂₋₆alkenyl, C₂₋₆cycloalkyl, C₂₋₆cycloalkyl(C₄₋₆)alkyl or phenylamino in which the phenyl ring is optionally substituted with one, two or three substituents selected from halo, C₁₋₄alkyl, halo(C₁₋₄)alkyl, C₁₋₄alkoxy and halo(C₁₋₄)alkoxy; and R⁴ is H, C₁₋₄alkyl or amino;

or wherein R³ and R⁴ together form a C₄₋₆alkylene chain optionally substituted with methyl;

or wherein R³ and R⁴, together with the nitrogen atom to which they are attached, form a morpholine ring.

10. (Previously presented) A process for preparing a compound of the general formula (1) according to claim 1 wherein R is chloro or fluoro, comprising:

(A) reacting an amine of the general formula NR³R⁴ with a compound of the general formula (6) or (13):



wherein R¹, R³ and R⁴ are as defined in claim 1.

11. (Original): A plant fungicidal composition comprising a fungicidally effective amount of a compound as defined in claim 1 and a suitable carrier or diluent therefor.

12. (Previously presented) A method of combating or controlling phytopathogenic fungi which comprises applying to a plant, to a seed of a plant, to the locus of the plant or seed or to soil or to any other plant growth medium, a fungicidally effective amount of a compound according to claim 1.